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**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

BR-036 PUS 01

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/584382

INTERNATIONAL APPLICATION NO.  
PCT/IB2004/004233

INTERNATIONAL FILING DATE  
December 21, 2004

PRIORITY DATE CLAIMED  
December 22, 2003

TITLE OF INVENTION  
**ASSEMBLY OF GAS-FILLED MICROVESICLE WITH ACTIVE COMPONENT FOR CONTRAST IMAGING**

APPLICANT(S) FOR DO/ES

SCHNEIDER, Michel; BUSSAT, Philippe; YAN, Feng; SENENTE, Anne

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/S) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☒ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the annexes of the International Preliminary Examination report under PCT Article 36 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). **UNEXECUTED**
10. ☐ An English translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 198.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. **UNEXECUTED**
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter. **UNEXECUTED**
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Copies of the PCT Publication WO 2005/063306 A1; PCT International Search Report and PCT Written Opinion of the International Searching Authority, both of which are cited in the attached Form PTO-SB/08B; PCT Request; PCT/IB/304

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require completing this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IAP20 Rec'd JUN 21 JUN 2006

PTO-1390 (Rev. 10-204)

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U.S. APPLICATION NO. (If known, see 37 CFR 1.5) TBA 11/2005/32		INTERNATIONAL APPLICATION NO. PCT/IB04/004233		ATTORNEY'S DOCKET NUMBER BR-036 PUS 01	
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21.	<input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....	\$300		\$ 300	
22.	<input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))			\$ 200	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....			\$0		
All other situations.....			\$200		
23.	<input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))			\$ 400	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....			\$0		
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....			\$100		
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....			\$400		
All other situations.....			\$500		
TOTAL OF 21, 22 and 23 =				\$ 900.00	
<input checked="" type="checkbox"/>	Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			\$ 0	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
86 -100 =	0 /50 =	0	X \$250		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$ 0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	60 - 20 =	40	X \$ 50	\$ 2,000.00	
Independent claims	3 - 3 =	0	X \$200	\$ 0	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		5	+ \$360	\$ 365	
TOTAL OF ABOVE CALCULATIONS =				\$ 3,265.00	
<input type="checkbox"/>	Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				
SUBTOTAL =				\$ 3,265.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ 0	
TOTAL NATIONAL FEE =				\$ 3,265.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied By an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$ 3,265.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$ 3,265.00

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- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 50-2168 in the amount of \$ 3,265.00 to cover the above fees
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2168. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not Be Included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

**Customer No. 31,834**

  
SIGNATURE

June 21, 2006

DATE

M. Caragh Noone  
NAME

37,197  
REGISTRATION NUMBER

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**NON-PROVISIONAL APPLICATION FOR LETTERS PATENT**

**TITLE: ASSEMBLY OF GAS-FILLED MICROVESICLE WITH ACTIVE COMPONENT FOR CONTRAST IMAGING**

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